



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT
Name of the head of the Institution	Dr. THIRUMALESHWARA BHAT
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0820-2589182
Mobile no.	9449330555
Registered Email	principal@sode-edu.in
Alternate Email	iqac@sode-edu.in
Address	Vishwothama Nagara
City/Town	UDUPI
State/UT	Karnataka
Pincode	574115

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Sudarshan Rao K
Phone no/Alternate Phone no.	08202589183
Mobile no.	9448252890
Registered Email	iqac@sode-edu.in
Alternate Email	sudarshan.mech@sode-edu.in

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://sode-edu.in/associations/quality-assurance-cell/
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://sode-edu.in/wp-content/uploads/2020/02/Acadamic-Calander-2020.pdf

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.13	2019	20-May-2019	19-May-2024

6. Date of Establishment of IQAC	01-Aug-2015
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Interaction of Dr. Jaiteerth R Joshi	12-Mar-2019 1	10

Scientist-G Project Director DRDL Hyderabad		
Workshop on NAAC accreditation process by NAAC team of SMVITM	02-Mar-2019 1	133
Five days STTP through ICT Mode on Problem Based Learning organized in association with NITTTR Kolkata	11-Feb-2019 5	14
Five days STTP through ICT Mode on Development of Laboratory Instruction and Manual organized in association with NITTTR Kolkata	04-Feb-2019 5	12
Workshop on Science and Spirituality by Prof. Dr. P.R Mukund, Professor, Department of Electrical Engineering, Rochester Institute of Technology USA.	28-Jan-2019 1	45
A lecture series by eminent academicians and industrialists was inaugurated by Dr. M. S. Moodithaya, Pro-Vice Chancellor Nitte University and Prof. Famida Handy, Professor, School of Social Policy and Practice, University of Pennsylvania gave the first	08-Jan-2019 1	120
FDP on New Age skill sets for Teachers by Mr. Praveen Kamath, General Manager & HR Head Technology Practice Units Wipro Limited, Bengaluru	24-Dec-2018 1	75
Two-day program on Counselling skills	14-Dec-2018 2	43
Two days FDP on Robotics by Mr. Ragavendra Rao Assistant Professor, department of ECE, SMVITM Bantakal	03-Nov-2018 2	22
Talk on Intellectual Property Rights and Patenting by Mr. Nishanth K. Prasad, Associate, K&S Partners, Intellectual Property Attorneys,	13-Oct-2018 1	45

Bengaluru

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mr. V Vijendra Bhat	Student Project	KSCST, Bengaluru	2018 180	9000
Mr. Ravinarayan R Rao	Student Project	KSCST, Bengaluru	2018 180	10000
Mr. Lingaraj K Ritti	Student Project	KSCST, Bengaluru	2018 180	7000
Mr. V Vijendra Bhat	Student Project	KSCST, Bengaluru	2018 180	9000
Mr. Lingaraj K Ritti	Student Project	KSCST, Bengaluru	2018 180	7500
Mr. Ravinarayan R Rao	Student Project	VTU, Belagavi	2018 180	5000
Mr. Sunil Haldankar	Student Project	VTU, Belagavi	2018 180	5000
Ms. Rajashree Nambiar	Student Project	VTU, Belagavi	2018 180	5000
Mr. Avinash N J	Student Project	VTU, Belagavi	2018 180	5000
Mr. Manoj T	Student Project	VTU, Belagavi	2018 180	5000

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Accredited by NAAC with A grade with 3.13 CGPA Initiated Outcome Based Education in the teaching learning process Introduced technology like Google classroom and CANVAS in the teaching learning process Awareness about IPR by conducting workshops.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Accreditation by NAAC	Accredited by NAAC with A grade
Outcome Based Education	OBE implemented and CO, PO and PSO of the programs were assessed
ICT based teaching learning process	Implemented ICT based teaching like Google Classroom, YouTube videos, PPT, MOOC etc.,
Surveys from the students and graduates to know the effectiveness of TLP	Implemented different surveys like Student satisfaction survey, Graduate survey
Increasing the frequency of feedback	Implemented feedback collection twice in a semester- Formative and Summative feedback
Green initiative	Commissioned solar power station
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14. Whether AQAR was placed before statutory body ?

No

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

06-May-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

01-Nov-2019

17. Does the Institution have Management Information System ?

Yes

<p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p>	<p>An indigenous (Developed by the institution itself) MIS is adopted in the institution which is an outcome of the research culture and acumen of the staff of the college. It is put to use for administration, student related activities and several operational modules are built into the system. It includes: Student Profile: Details of the student such as address, contact details, previous years' academic records are maintained. Daily attendance entry: This enables identifying irregular students in the classes and the information to this effect is passed on to the parent/counsellors by the TG/FA for remedial action. Internal assessment and assignment marks entry: Progress of a student is monitored and the slow learners are identified. So that the deserving students are given with additional guidance. This has given a thrust to the CIE of the institution. Leave transaction for Faculty and staff: Leave the transaction process is streamlined so that the whole process has become simple and effective with alternative arrangements for classes are clearly deciphered. Semester exam invigilation duty allotment: Whole invigilation allotment system has become systematic and timesaving. Student Feedback collection and analysis: The process has become much faster with regard to feedback collection and report generation. Confidentiality of the feedback and reports are maintained.</p>
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Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The institute is affiliated to Visvesvaraya Technological University, Belagavi (also approved by AICTE, New Delhi, recognized by the Govt. of Karnataka). It being an affiliated institution, the curriculum is prescribed by the university. The institute has developed well defined plans for the effective and efficient implementation of the curriculum. The IQAC of the college is effective in executing the action plans for the implementation of the curriculum. IQAC prepares an academic calendar of events covering various academic, co-curricular and extracurricular activities for the entire semester and also ensures effective implementation of the same. In the beginning of the semester, the institution uploads the calendar on the website of the

institution and accordingly the departments prepares department calendar in tune with the institute calendar and is displayed on the dept. notice board. In addition to this, subjects are allotted to the respective faculty member well in advance which will help them to properly plan for course delivery depending on the academic calendar. Faculty members are required to maintain the lesson plan which contains the details of plan for complete coverage of the syllabus along with details of dates of actual completion of the course contents. These details are to be duly signed by the HOD to ensure that, classes are being conducted as per the plan. In addition to the feedback (formative & summative) taken during the semester, students are allowed to make observations on teaching (content, style, methodology) during class committee meeting. Thereby they contribute to the improvement in effective delivery of course contents. We in the department organize various supplementary activities and methods used to identify the extent of compliance of the university curriculum for attaining the program outcomes: The faculty are aligned towards Outcome based Education (OBE) and are actively utilizing the OBE to serve the learning needs of students by innovative way. For effective delivery of the curriculum, faculty members make use of innovative teaching learning processes including seminars and workshops based on the curriculum, audio visual mode of teaching, study tour, use of ICT based teaching etc. The curriculum is strengthened and supplemented by value added and certificate courses NPTEL. The institute provides plenty of opportunities and offers relevant courses to develop the skills and practical knowledge through collaborative learning, professional societies, hands on training, workshops, guest lectures, industrial visits etc. Advanced learners are provided with the additional reading material, books and are involved in various club activities, dept. clubs and paper presentations to strengthen their knowledge whereas remedial classes are conducted for slow learners. Institution promotes faculty members to attend orientation programs, seminars, conferences FDP's and encourages research activities for enriching their knowledge.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Object Oriented Programming in C		28/01/2019	15	Employability	Programming Skill
Certification course on VLSI-Design Verification Trends? by (CVC) Pvt. Ltd.		16/07/2018	15	Employability	Design Skill
Certification course on Embedded Systems by Cloud-E, Mysuru.		17/07/2018	15	Employability	Design Skill
Certification course on CATIA-V5 software		29/07/2018	15	Employability	Design Skill

Certification course on Embark your journey of Python Programming	22/10/2018	3	Employability	Programming Skill
Certification course on Electronic circuit design	16/01/2019	5	Employability	Circuit design
Certification course on Product Management	16/02/2019	3	Employability	Product Management
NPTEL	01/07/2018	90	Employability	Subject Knowledge

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	CVE/CSE/ECE/ME	01/07/2018
BE	CVE	01/07/2018
BE	CSE	01/07/2018
BE	ME	01/07/2018
BE	ECE	01/07/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	CSE	01/07/2018
BE	CVE	01/07/2018
BE	ECE	01/07/2018
BE	ME	01/07/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	838	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
YOGA	24/09/2018	20
Pragnyan	09/10/2018	363
Skilling Engineers For Professional Success	09/07/2018	21

Communication Skill development	07/07/2018	127
Entrepreneur awareness camp	28/08/2018	63
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	CVE	52
BE	CSE	124
BE	ECE	127
BE	ME	183
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The institution collects feedback on curriculum aspects and teaching and learning process from different stakeholders such as students, faculty, alumni, parents and employers. Once the feedback is analysed and valuable suggestions given were considered and necessary actions were executed. Faculty feedback from the students for the respective course is taken twice in a semester on various teaching/learning aspects and it is analysed by the HODs and corrective measures if any, are informed to the respective faculty members for further improvements. Graduate survey are taken from the final year students at the end of the program for improving infrastructural facilities. Faculty feedback on curriculum for the each scheme is taken and are being analysed and suggestions are communicated to the University. Feedback from Alumni is obtained on the level of attainment of programme educational objectives, programme specific outcomes and programme outcomes are analyzed and corrective actions are taken. The institution has alumni association and it conducts annual Alumni Meet, in which suggestions and feedback is received from Alumni and as well as whenever any alumni visits the college, feedback is taken. Feedback from the parents are taken by interacting with them during Parent Teacher Meet. All the feedback obtained is analysed and corrective actions are proposed for the overall development of the institute. Employer's feedback is obtained from the employers to cater the requirements of industry, placement cell and the concerned department will take the initiatives to strengthen the placement. The responses of the recruiters who visited the campus are considered for the improvement of the curriculum and placement activity. In addition to this, the stake holders can put their feedback/ suggestions in the suggestion boxes kept at the prominence locations of the institute premises. The curriculum aspects suggestions will make notice to the university to possible changes in the</p>

course structure for the next curriculum revision. The IQAC of the institute look in to the quality sustenance and enhancement measures to ensure the effective development of curricula. The institute has been organizing Faculty Development Program every year to enhance the professional competency and teaching pedagogy of the faculty. Curriculum is enriched through Technical talks, industry interaction, workshops, mini projects, industry visit, internships and conferences. The Institution has included the following Curriculum Aspects to enrich the curriculum: 1. Choice Based Credit System to learn professional elective courses and open elective courses offered across the departments. 2. Value added courses. 3. Courses on communication skills / Professional ethics / Environmental Engineering, and Employability Skills. 4. Hands on training and virtual lab in many laboratory courses thereby stimulating creativity and innovation.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	CSE	120	108	100
BE	ECE	120	50	48
BE	CVE	60	33	31
BE	ME	120	31	29
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1233	0	85	0	0

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
85	81	7	31	0	6

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

In the beginning of academic year a list of mentors are identified by Student Welfare Officer (SWO) and approved by the principal. To encourage and monitor all-round development of the students, a group of 15-20 students are allotted to each faculty and the faculty is acting as Teacher Guardian (TG) right from their first year, at the Institution. From second year, for the same set of students, the allotted TG may continue as Faculty Advisor (FA) for the rest of the semesters or may be transferred to other faculties who will be their FA till the end

of their course. The mentors or Faculty advisor (FA) assigned will be from the respective departments. Teacher Guardian's maintain Cumulative Performance Diaries (CPD) during first year, that contains information about the student, parents, achievements, academic details, placement details and soft skill evaluation. In addition, college has developed its own Management Information System (MIS) that contains all the academic details of the student. Faculty advisors can keep a track of their performance, attendance etc., of the students and mentor them as and when required. The students meet their TG's as and when called. If required, proper counseling is provided either by the FA, HOD, principal or will be recommended for the counseling cell. Progress report generated by MIS will be sent by FA's to the parents of allotted students after each internal assessment test. Upon receiving the progress report, parents have to sign the acknowledgement slip and send it back to the FA/TG. Parents are advised to discuss about the performance of their ward regularly by mentioning about the date of visit in the slip. If the performance of student is very poor, then parents are informed by the TG/ FAs to meet them and the details of the meeting is recorded in CPD. HOD's of the respective departments monitor this process continually and FAs have to present the detailed performance of the student at the end of each semester. Students have to maintain a blue card, which records all activities of a student outside the college. It also maintains the record of permissions by TG/FA, Parent, Coordinator and HOD so that the concerned can keep track of the students' activities. Meeting of class committee (consisting of selected students of a class, TG/FA and HOD) is held frequently as scheduled, during which any issues pertaining teaching, learning, academic, discipline etc., gets highlighted which will be addressed suitably.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1233	85	14:1

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
85	85	0	6	11

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mr. Narayan Nayak	Assistant Professor	200,300, 400 and 600 km brevet finisher organised by Audax Club France in association with AIR
2019	Mr. Pavana Kumara	Assistant Professor	Best paper in award in International Conference, ICRDME-2019, SA College of Engineering, Chennai
2019	Mr. Ananth Mohan Mallya	Assistant Professor	NPTEL Exam gold medal
2019	Mr. Lingaraj K. Ritti	Assistant Professor	NPTEL Exam gold medal
2019	Mr. Sachin Bhat	Assistant Professor	Best Paper award at Springer AIDE-2019

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	CSE/CVE/ME/ECE	VIII	07/06/2019	22/08/2019
BE	CSE/CVE/ME/ECE	V	18/01/2019	28/03/2019
BE	CSE/CVE/ME/ECE	IV	16/07/2019	09/09/2019
BE	CSE/CVE/ME/ECE	I	18/02/2019	18/04/2019
BE	CSE/CVE/ME/ECE	II	16/07/2019	18/09/2019
BE	CSE/CVE/ME/ECE	III	18/01/2019	03/04/2019
BE	CSE/CVE/ME/ECE	VI	16/07/2019	09/09/2019
BE	CSE/CVE/ME/ECE	VII	18/01/2019	28/03/2019

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Semester Examination and Continuous Internal Evaluation procedure are prescribed by Visvesvaraya Technological University, Belagavi and the Institute follows the same. Apart from this, the institute conducts various technical and non-technical events to evaluate the student's qualities. Formative Assessment The formative assessment refers to wide variety of methods that teachers use to conduct in-process evaluations of student comprehension, learning needs, and academic progress during the course. CIE is implemented in academic areas using different evaluation techniques like internal assessment test, quiz, seminar, internships, etc., as prescribed by the university. The performance of the students in the internal assessment tests are regularly recorded and monitored by the mentors in Cumulative Performance Diary (CPD) as well as in the Institute Management Information System (MIS). Results of internal tests and university examinations are analyzed and meetings are conducted to discuss the performance of the students. Parents of the poor performers are requested to meet the mentors, to have close discussion about student's performance. As a part of continuous internal evaluation, students Leadership qualities, presentation skills etc. are recorded in CPD by the respective Teacher Guardian/Faculty Advisors. Summative Assessment At the end of the semester the assessment of students in academic and non-academic areas are included in the summative assessment. The summative assessment in the academic areas, like, the subject knowledge, skill set of the students etc. is tested by the university examinations at the end of the semester. Practical courses, seminars are also a part of CIE as per the guidelines of VTU.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

? The institution abides by the rules and regulations of VTU regarding commencement of classes, dates of theory and practical examinations. Based on the academic calendar prescribed by the VTU, the institution level academic calendar is prepared. Schedule of the entire semester activities is made available to the students on the institutional website <http://www.sode-edu.in> and college notice boards in the form of academic calendar. ?In line with institutional academic calendar each department prepares their academic calendar wherein department level activities are planned for the overall growth

of the students. By considering all the above, the master calendar of the institution is prepared by the IQAC. The schedule for the internal examinations is prepared by the departmental EMS coordinators. The course wise time table is prepared by the departmental EMS members in discussion with the concerned HODs and displayed on the exam related notice board. The semester theory and practical examinations are conducted as per the norms of VTU. Each cell/club prepares the strategic perspective plan for the academic year and it will be sent to the IQAC for the approval. The various committees work accordingly and in the end of each semester implementation report will be prepared so as to ensure the activities held as per the perspective plan. Number of teaching hours necessary to complete the syllabus is properly planned by the faculty. Accordingly, each faculty member prepares the lesson plan of his/her subject in order to complete the syllabus with the proper planning and preparations.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://sode-edu.in/academics/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
ME	BE	ME	101	95	94.06
CIVIL	BE	CVE	49	48	97.96
CSE	BE	CSE	101	99	98.02
ECE	BE	ECE	94	92	97.87
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://sode-edu.in/wp-content/uploads/2020/03/SSS-Questions-SMVITM-Report-2018-19.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Industry sponsored Projects	365	Ace Manufacturing System	1	1
Projects sponsored by the University	365	SMVITM	3.15	3.15
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Industry MCF visit	Civil Engg..	09/05/2018
Industry Infosys Nethra campus visit	Computer science and engg..	12/11/2018
Project Management by Philips labs	Computer science and engg..	15/02/2019
Industry kaiga nuclear power plant visit	Electronics and communication engg..	20/03/2019
Advanced atuomobile engineering	Mechanical engg..	27/10/2018
Autonomous robotics	Mechanical engg..	29/03/2019
IPR and Patenting	ISTE	13/10/2018
FDP on Basics of CFD and Hands on training using Ansys Fluent	Mechanical Engg..	08/06/2018
FDP on Water Resources, Geo-Environmental Challenges and its Application	Civil Engg..	12/06/2018
4 Week Internship training program for final year students	Electronics Communication Engg..	16/07/2018
4 Week Internship training program for final year students	Electronics and communication engg..	17/07/2018
72hrs course on CATIA-V5	Mechanical Engg..	29/08/2018
Sustainability in concrete construction and advances in concrete technology	Civil Engg..	27/09/2018
Green building and sustainability and hands on EDGE certification course	ISTE student chapter	28/09/2018
Embark your journey of python programming	Computer science engg..	22/10/2018
Fundamentals of PCB design	Electronics and communication engg..	23/10/2018
5 Day internship training at Advanced Electronic System	Electronics and communication engg..	16/01/2019
Building information modeling through revit architecture and 3D studio Max	Civil Engg..	15/02/2019
Joy of PCB design	Electronics and communication engg..	16/02/2019

Space technology and its application by ISRO	ISTE student chapter	14/03/2019
Cype CADD software by FE designs	Civil Engg..	27/03/2019
3 Day Entrepreneurship Awareness Camp	EDC cell	27/08/2018
Industry UPCL visit	Electronics and communication engg..	29/08/2018
Accelerate the start up by UDMA Technologies	EDC cell	04/12/2018
Industry Lamina Foundries PVT. LTD. Visit	Mechanical Engg..	04/10/2018
Industry Lakshmi cryogenics pvt. ltd visit	Mechanical Engg..	16/04/2019
Business Plan Development	EDC cell	02/05/2019
STATECON 2018 Ease of doing business	Civil Engg..	07/09/2018
Industry simply supported pvt. ltd. visit	Civil Engg..	27/10/2018
Industry RMC plant visit	Civil Engg..	17/11/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Hackathon	Deepak Nayak, Ullas and Saurabh	Dreamsoft innovations, Hostzyro and NAIN	14/04/2019	1
Gameathon	Haripriaya, Nithin, Shreenivas and Palguna	Dreamsoft innovations, Hostzyro and NAIN	14/04/2019	2
Springer International conference on artificial intelligence	Sachin Bhat	springer, NMAMIT Nitte	23/05/2019	Best Paper
National conference on emerging trends in science and engineering	Shetty Lathish Bhaskar	SMVITM	27/04/2019	Best Paper

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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
nil	nil	nil	nil	nil	01/02/2019
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
	3	

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Electronics and Communication Engineering	1
Chemistry Department	1
Mechanical Engineering	1

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	9	1.9
International	Electronic and Communication Engg..	7	4.23
International	Computer science and engg..	3	5.5
International	Chemistry	3	1.17
International	Mathematics	3	7.9
International	Civil Engg..	2	2.31
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical Engineering	11
Electronics and communication engg..	10
View File	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Enhancing Streamflow Forecasting using the Augmenting Ensemble Procedure coupled Machine Learning	Sujay Raghavendra Naganna	Hydrological Sciences Journal	2019	1	Shri Madhwa Vadiraja Institute of Technology and Management	0

Models: Case Study of Aswan High Dam.						
Dew Point Temperatur e Estimati on: Applic ation of Artificial Intelligen ce Model Integrated with Natur e-Inspired Optimizati on Algorit hms.	Sujay Ragh avendra Naganna	Water	2019	1	Shri Madhwa Vadiraja Institute of Technology and Management	13
Developmen t, Charact erization, Mechanical and Corrosion Behaviour Investigat ion of Mul ti- direction Forged Mg-Zn Alloy	Dr. Gajanan Anne, Mr. S. Ramesh, Mr.Goutham Kumar, Mr. Sandeep Sahu, Dr. M. R. Ramesh, Dr. H. Shivananda Nayaka, Dr. Shashi bhushan Arya	Minerals, Metals and Materials Series	2019	1	SMVITM, Bantakal	2

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Developmen t, Charact erization, Mechanical and Corrosion Behaviour Investigat ion of Mul ti- direction Forged Mg-Zn Alloy	Gajanan Anne	Minerals, Metals and Materials Series	2019	4	2	SMVITM, Bantakal
Dew Point	Sujay Ragh	Water	2019	8	13	Shri

Temperature Estimation: Application of Artificial Intelligence Model Integrated with Nature-Inspired Optimization Algorithms.	avendra Naganna					Madhwa Vadiraja Institute of Technology and Management
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	6	35	31	2
Resource persons	1	0	0	5
Presented papers	11	11	2	0
View File				

3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
National Youth Day	NSS/YRC/RC	6	102
Short Movie making on social awareness topic	NSS/YRC/RC	8	56
Orphanage Krishna Dhama	Muchilkod Udupi	4	45
Kannada Rajyothsava Celebration	Extra Curricular Committee	13	80
Vanamahothsava	ECO club	6	174
Installation Ceremony of NSS	NSS	12	263
Drug addiction and road safety awareness	Shirva Police station	8	189
Installation ceremony of RC	Rotary Shankarpura	10	173
Geneva convention day	NSS/YRC/RC	2	75
Campus cleaning drive	NSS/YRC/RC	7	133

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Geneva convention rally	Letter of Appreciation	Indian Red Cross society	75
Blood Donation Camp	Letter of appreciation	Kasturba Hospital	158
Education tour	Letter of appreciation	College of agriculture, Hassan	100

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh bharath	Community and ECO club	Street cleaning program	5	160
Blood donation awareness	KMC manipal	Blood donation camp	8	158
Aids awareness	The red ribbon club	Aids awareness program	3	52
Voter awareness	Shirva Gram Panchayath	Voters awarenss program	4	164
Human value awareness	Brahama Kumaris	Total quality of life	23	105
Social Awareness	NSS/YRC/RC	Orphanage Krishana Dhama visit	4	45
Swachh Bharath	NSS/YRC/RC	Campus cleaning drive	7	133
Environmental awareness	Community and eco club	Street play on plastic ban	5	45
Gender equity	Women empowerment cell	HeShe	4	162
Awareness on women health	women empowerment cell	Women health issue	4	80

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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Conference	Dhanyashree Vinay	SMVITM	1
Conference	Dr. Vasudeva	SMVITM	1

Conference	Nagaraj Bhat	SMVITM	1
Student Project	Mechanical final year students	SMVITM	150
FDP	Karhtik V	SMVITM	3
FDP	Raghavendra Rao P	SMVITM	3
FDP	Ananth Mallya	SMVITM	3
FDP	Tejaswini H	SMVITM	3
FDP	Shrinivasa	SMVITM	3
FDP	Praveen M Naik	SMVITM	3
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Logistic mobile application development	Zephyr Technologies and solutions pvt. ltd.	16/07/2018	15/08/2019	70
Internship	Embedded hardware and software	CloudE mysuru	15/07/2018	15/08/2019	17
Internship	VLSI design verification trends	CVS Pvt. Ltd. Mysuru	15/07/2018	15/08/2018	12
Internship	Installations	Konkan railway corporaiaon ltd.	15/07/2018	15/08/2019	51
Internship	Training	Hornbill software pvt. ltd.	16/07/2018	15/08/2018	24
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
CloudE Mysuru	31/07/2018	Groom the students to become industry ready	38
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
89.5	130.08

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Easylib	Fully	4.3.3	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	10967	3558208	591	235429	11558	3793637
Reference Books	3209	895295	78	30980	3287	926275
e-Books	5	320000	2	100000	7	420000
Journals	129	463863	0	0	129	463863
e-Journals	39	5100893	9	718250	48	5819143
Digital Database	1	0	0	0	1	0
CD & Video	741	0	0	0	741	0
Library Automation	1	135520	0	11800	1	147320
Weeding (hard & soft)	0	0	0	0	0	0

Others (specify)	0	0	0	0	0	0
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Raghavendra Rao P	LED blinking using Multisim and Keil	YouTube	15/04/2019
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	515	278	511	10	190	25	8	100	4
Added	4	0	4	0	0	0	4	0	0
Total	519	278	515	10	190	25	12	100	4

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Media Center	https://youtu.be/7PEi3QdAAXs
Recording Facility	https://drive.google.com/drive/folders/17xMT6IhfhT7hb84qZp-bpSJqsefuKdPI?usp=sharing
Lecture Capturing System	https://drive.google.com/open?id=14y5EbGfUoz5p9AQzGY1Vtb7jGzax9Vls
Media Center	https://drive.google.com/open?id=11cbVMpvG4OYGFRrs6ru8y02E1WTTlOM
Media Center	https://youtu.be/441688_yowM
Media Center	https://youtu.be/k4eKz4YO2kY
Media Center	https://youtu.be/lqhEg3VVMr8
Media Center	https://youtu.be/oQWO76yj_10
Media Center	https://youtu.be/NPOvX5JeOnU
Media Center	https://youtu.be/Y0UZzb8-Nh8
Media Center	https://youtu.be/Lt1Ya0iFTdU
Media Center	https://youtu.be/7PEi3QdAAXs
Media Center	http://ganesh8.blogspot.com/

Media Center	https://sode-edu.in/nptel-course-material/
Lecture Capturing System	https://drive.google.com/open?id=113bsGT5mcHYOY5eKbE8S1owR6czB1Ngx
Lecture Capturing System	https://drive.google.com/open?id=1eVxpz2AhOeVRgBbA_387g5YqTMGqOMA

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
131.5	87.09	119	116.77

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Physical facilities • College has appointed qualified people for maintaining its buildings, transport, furniture and generator, civil, electric, plumbing work etc. • Maintenance department undertakes electrical/plumbing work and its maintenance. • Separate complaint registers are maintained for different services. Maintenance department reports regularly about breakage/maintenance of equipment to higher authority to take proper measures. • Garden is maintained by gardening staff. • Generator servicing is provided by vendor for every six months. • Sewage Treatment plant with 125kilo-litres capacity is set up using batch reactor technology. Monthly maintenance is done through supplier. 40litres of chlorine is used to clean it and recycled water is reused for gardening. • Solar panels of 125KW and solar water heaters are set up in hostels for students' convenience and maintenance is done as per supplier guidelines. • Used booklets, papers, magazines are disposed as scraps every year. • A fleet of buses and van are maintained by the college transport department. Students, staff avail this facility by paying a fixed amount yearly. • Yearly interdepartmental stock verification is done for available, discarded equipment by a meticulous stock verification process and submitted to the Principal. Academic Facilities- Laboratories, Classrooms • Entire campus including infrastructure is cleaned everyday by house-keeping staff. • Maintenance department ensures uninterrupted power supply, maintenance of electrical assets. • Minor repairs of laboratory equipment are done by lab instructors. • Lab components are accessed by students for projects. • Major equipment is under AMC for regular preventive and corrective maintenance. • The PCs in laboratories are utilized for conducting IBPS, RRB, MESCOM, COMED-K and consultancy work. • The faulty trainer kits are serviced by service engineers of specified companies and measuring instruments are calibrated regularly by standard companies. Library • Central library is well maintained. Staff and students utilize it effectively. • ILMS software undergoes AMC by vendor. • House-keeping staff does its routine cleaning. • e-resources are renewed yearly. Computers • Maintenance of PCs and printers, minor repairs related to hardware/software are done and addressed by system administrator. Server room support IT related issues. • Students and staff are provided separate login credentials for intranet and internet access. • Internet access is provided even after college hours to encourage students in their projects. • Software and antivirus are updated periodically. • Qualified system programmer creates, maintains student faculty database by enhancing new features frequently. Sports Complex • Spacious sports room in the basement of main block, maintained/monitored by Physical Education Director is available beyond working

hours and utilized by students/staff. Required sports materials are procured every year and housekeeping staff cleans its surroundings on regular basis. •Outdoor games are open from 6:00AM-7:30AM and 4:00PM-6:30PM. •Special sports coaching is provided for students participating in VTU/Intercollegiate level from 3:00PM-6: 30P.M with prior permission from Principal. • Gym facilities are provided for hostel boys from 6:00 AM-7: 30AM, ladies (staff/students) from 5: 00 PM-6: 00 PM and gents (staff/students) from 6:00 PM-7: 30PM. Indoor games facility is available from 1:00PM-1:50PM and 4:00PM-6:30PM.

<https://sode-edu.in/facilities/#collapse2>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institute Scholarships	172	2253631
Financial Support from Other Sources			
a) National	Govt Scholarships	770	19980960
b) International	NA	0	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft Skill Development	06/10/2018	42	Siddharth Tiwari-Regional Manager - Campus Solutions -Aspiring Minds
Soft Skill Development	04/05/2019	50	Siddharth Tiwari-Regional Manager - Campus Solutions -Aspiring Minds
Language Lab	06/10/2018	8	First Look
Language Lab	31/10/2018	80	Dr. Neetha Kishore, In House Faculty.
Yoga Meditation	21/06/2019	26	Ms. Mamatha Yoga Trainer
Personal Counselling Mentoring	09/08/2018	150	Dr. Veerupaksa Devarmani, Physchatrlist, A V Balliga Hospital, Udupi
Personal Counselling Mentoring	14/12/2018	43	Mr. Suresh M, Nithesh Alvas Coueselling Centre, Moodibidri

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the

institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Competitive Exam preparations - GATE, GMAT, TOEFL, IELTS, etc.,	105	0	22	0
2018	Orientation to various Industry sectors like Aviation, Automobile, Product and Services related industries, etc	0	250	0	159

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
14	14	9

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Infosys Ltd., Bengaluru	189	30	nil	0	0

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E	CIVIL ENGINEERING	MIT, MANIPAL	M Tech In CONSTRUCTION ENGINEERING
2019	2	B.E	COMPUTER SCIENCE	MIT, MANIPAL	M Tech in COMPUTER

			ENGINEERING		NETWORKING AND ENGINEERING
2019	2	B.E	COMPUTER SCIENCE ENGINEE	MIT, MANIPAL	M Tech in COMPUTER SCIENCE AND INFORMATION SECURITY
2019	1	B.E	ELECTRONICS AND COMMUNICATION ENGINEERING	MIT, MANIPAL	M Tech in DIGITAL ELECTRONIC AND COMMUNICATION ENGINEERING
2019	3	B.E	ELECTRONICS AND COMMUNICATION ENGINEERING	MIT, MANIPAL	M Tech in POWER ELECTRONICS AND DRIVES
2019	1	B.E	ELECTRONICS AND COMMUNICATION ENGINEERING	SOIS, MANIPAL	M Tech in INTERNET OF THINGS

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
Any Other	21
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Rajyothsava Trophy	Intra-Collegiate	125
VTU Mangaluru Zone Handball Tournament (Men)	University Level	80
Varnothsava	State level	422
Fine arts competitions - Varnika	Intra-Collegiate	200

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Runner-up inHandball Tournament	National	1	0	4MW18ME025	Shreekar H G

2018	Representing SMVITM in Mr.VTU BEST POSER 2018-19	National	1	0	4MW15EC022	Darshan Raj G
2018	Winners in below 70kg BEST PHYSIQUE	National	1	0	4MW15EC022	Darshan Raj G
2019	2nd in Kannada Story Writing, 27/28 March 2019, SENTIA 2019	National	0	1	4MW18EC007	Bhoomika JS
2018	Silver medal in Folk archestra in VTU YOUTH FEST 'JANANI-2018'	National	0	1	4MW15CS073	Ranjan

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

We have an Elected/selected Student Council comprising of One General Secretary, joint secretary, Secretaries for cultural, technical, sports, placement representatives and editorial board representatives for newsletter, college magazine and Class Representatives of each class. . Students' Council of the college works for the benefit of the students throughout the year and pursues several activities within and outside the college campus. SC puts forward his/her suggestions and different issues related to the academic and administrative affairs of the college to the Head of the institution and to the IQAC. Problems faced by students are sometimes communicated to the college authority through General Secretary of the students' council. Student council along with The Principal and the student council advisory board which meets on a monthly basis to discuss their areas of concern. The Student Council helps in maintaining academic discipline and strictness. They have special tasks during co-curricular and extra-curricular activities. We have Student representatives in IQAC, Women Anti-Harassment Cell, Human Rights Cell, YRC, Newsletter, rotaract club, Training and placement Cell, NSS, all departmental associations and Sports. The major activities pursued by the Students' Council in 2018-19 are- > Spiritual retreat > Orientation programme for the First Year Students. > Aavishkar- Model competition for PU students > Graduation day ceremony > College annual day celebration and inter collegiate techo-cultural fest > Manthana- an intra-collegiate cultural fest. > Blood donation camp. > Annual Sports Day. > VTU hand ball competition > IIoT

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

10

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The National Conference on Emerging Trends in Science and Engineering was organized (NCETSE-2019) in the month of April 2019 by the institute. Over 200 faculty/research scholars/students from various colleges across the country participated in the event. Committee formation procedure followed during National Conference on Emerging Trends in Science and Engineering-2019. • In the IQAC meeting, the organizing conveners were selected by the Principal (Chairman of the conference) and the responsibility of organizing the conference was delegated to them. • Conveners in turn formed different committees like Technical activity, Invitation and certificate, Program and event management, Press and Publicity, Stage and venue setting, Reception and registration, Finance, Transportation and accommodation, web page updating and food committee. Each committee was headed by the coordinator and later on, the members were allotted for the respective committees. Duties and responsibilities of each committee were framed by the conveners in consultation with the coordinators. • During the conference, various committee members and student volunteers participated actively resulting in the successful conduct of the event. Participative management: A new IQAC has been formed with the chairmanship of Principal for the academic year 2018-19. During its first meeting, different clubs/committees were formed and a few senior faculty members were selected as Institutional level coordinators for the smooth functioning of the institution. Involvement of faculty members, non-teaching staff and students were ensured in the various cells such as NSS/YRC/RC, Co-curricular and extra-curricular, Hostel and canteen, Anti-ragging, counselling and Women empowerment. List of activities envisaged and the responsibilities assigned to individuals were chalked out in the first meeting of each cell. Planning and execution of the activities of the aforesaid committees were monitored in the periodically conducted meetings. This could ensure a smooth and effective conduct of the various events planned. Student's participation was encouraged in decision making process through student council, student's chapters like ISTE/IEEE and various department clubs. Measures to apprise parents of the academic performance of their wards as well as facilities available in the campus were taken through Parent teachers meet conducted once in each semester. Interests of the alumni were taken care of through a meet conducted in the month April in Bangalore where majority of our alumni are placed.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • Industrial visit conducted by all the Engineering departments to enhance the student's experiential learning ability. • Guest lectures by some industrial experts from industries were arranged regularly.
Library, ICT and Physical Infrastructure / Instrumentation	<p>The Central Library of our institute is automated with ILMS software Easylib, a fully automated software package purchased in 2010, with version 4.4.2.</p> <ul style="list-style-type: none"> • It has a separate digital library facility to access e-resources such as IEEE, ProQuest, K-Nimbus, Elsevier, ASCE, Springer, Taylor and Francis that come under VTU Consortium to develop research culture among students/faculty/staff. • Department libraries equipped with good number of latest books and references help faculty members strengthen their preparation for classes. • Librarian with the help of library committee conducted various activities for students to familiarize the facilities available in the library. <p>Physical Infrastructure/ Instrumentation: In addition to the items mentioned in SSR submitted for accreditation process (assessment years 2015-16 to 2017-18), the following facilities were added in 2018-19.</p> <ul style="list-style-type: none"> • A highly anticipated green initiative has been accomplished by installing a 125 kWh capacity solar panel by utilizing the large roof top area above the mechanical workshop. • It covers the full electrical consumption of the institution and there is also provision that to transmit the surplus to MESCOM grid. • A well-equipped gymnasium has been made operational for the benefit of students and faculty members in the indoor court area of the basement.
Examination and Evaluation	<ul style="list-style-type: none"> • To conduct the course work related internal assessment tests in a transparent manner and to ensure the smooth functioning of the entire examination related activities such as evaluation, marks entry in college MIS, dispatch of progress report, result analysis meeting etc. an examination cell is formed in the institute. • Principal is the head of the cell who

is also the Chief Superintendent for all the internal and university examination related activities. • Examination cell coordinator is the liaison with the university in examination related matters of the college. • In addition there are five Examination Monitoring System (EMS) coordinators selected from faculty to assist in actual functioning of the cell. All members of the cell regularly meet during the semesters to discuss the relevant issues. • In pursuance of instructions from VTU, CCTV facilities were installed and surveillance is made effective in all the class rooms.

Curriculum Development

Effective measures were taken in order to strengthen curriculum development aspects. • Curriculum feedback was collected from all the stake holders at the end of the semester. • The same was subjected to scrutiny and analysis during departmental meetings. • The resolution to this effect was discussed and relevant suggestions were submitted to university authorities. • Industrial visit, talk by experts in relevant fields, value added certified courses, NPTEL courses, technical paper presentation, IIOT, mini projects, all in students interests were additional steps encouraged by the institution.

Teaching and Learning

In order to make the students more interactive creative and to make learning more effective following teaching learning methods were implemented in the institution. • Mini project competition • Innovative teaching methods like Google classroom, ICT, lecture capturing system (LCS), e-learning resources, certificate courses etc • Trainings on soft skills and personality development by the Placement and Training department • IIoT- Industrial Internet of Things a national level event. • National conferences • Industrial visit and guest talk by industrial and academic experts • E-learning facility provided through language lab, multimedia center. • Participation of students were enhanced in co-curricular and extra-curricular activities.

Research and Development

• SMVITM has VTU approved research centres in two engineering programmes as well as in all the three basic science departments. • The Dean,

Research and Consultancy (R C) takes care of the promotion and dissemination of the research activities in the campus. • The doctoral committee constituted by the institute headed by the Dean (RC) reviews the project and funding proposals. • They also meet once in every six months to review the progress of research activities of the institute.

Human Resource Management

An in-house developed Management Information System (MIS) is used for effective administration though a few modules have been effectively operational earlier, leave transaction process was streamlined from 2018-19. This made the whole process much more simple and convenient. Alternative arrangements for classes henceforth became clearly deciphered thus improving transparency of the leave availing system.

Admission of Students

Admission to SMVTIM is granted in accordance with the rules and regulations enforced by the Government of Karnataka from time to time. Aspiring students shall take up the Common Entrance Test (CET) conducted by Karnataka Examinations Authority (KEA) and get admitted through the CET counselling process. A few management seats are also available in the institution. There is also a provision for successful Diploma/B.Sc students to get admitted to second year of engineering through lateral admission. The Institution has taken added initiatives in promoting the admissions and to improve the visibility by deputing senior faculty with career counselling experience to nearby Pre university Colleges. Lot of encouragement was given especially to economically and socially underprivileged students in the form of scholarships.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Mail communication facilities to all departments/Faculty members. Faculty feedback system through indigenously developed Management Information System (MIS).
Administration	Students attendance and mark entry, Faculty and staff leave entry facility

	through MIS.
Finance and Accounts	All the transactions are carried out through Tally
Student Admission and Support	Admissions are carried out by Karnataka Examination Authority through CET.
Examination	End semester examinations are conducted by the university. Exam form application, Question paper delivery system, Evaluation and announcement of results are carried out through online system.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Ranjith Bhat	Fundamentals of Network Simulations Using NS-3, NMAMIT, Nitte	nil	500
2018	Manoj T	AI and Deep Learning Workshop, KLE University, Hubli	nil	2050
2018	Karthik V	3 day FDP on curriculum for first year students, SJCE, Mysore	nil	1750
2018	Dhanyashree Vinay	National conference on Applications of Mathematics and statistics in Engineering 2018, MIT, Manipal	nil	1500

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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
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2018	Talk on Intellectual Property Rights and Patenting by Mr. Nishanth K. Prasad, Associate, KS Partners, Intellectual Property Attorneys, Bengaluru	nil	13/10/2018	13/10/2018	45	0
2018	Two-day program on Counselling skills	Two-day program on Counselling skills	14/12/2018	15/12/2018	5	36

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Advanced Measurement and Control at MIT, Manipal	1	06/07/2018	10/12/2019	5
FDP on Computer Networks and Cyber Security SJCE Mysuru	1	16/07/2018	20/07/2018	5
A 5 days FDP on Machine Learning for presictive modeling and data analytics using Python at Reva University, Bengaluru	1	23/07/2018	27/07/2018	5
One week AICTE-ISTE Induction/ Refresher Program on "Recent Advances in I.C.Engines- Research Issues"	1	23/07/2018	28/07/2018	6

FDP on Project Based Learning Using MATLAB and SIMULINK at St. Joseph Engineering College, Vamanjoor	2	07/01/2019	09/01/2019	3
A one week ICT based STTP on Development of Laboratory Instruction and Manual organized by NITTTR, Kolkata	10	04/02/2019	08/02/2019	5
ICT Mode (online) Short Term Training Programme on "Problem Based Learning (ICTSPL)"	12	11/02/2019	15/02/2019	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
74	11	71	7

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
FDP, Guest lectures, seminars and hands on workshop have been arranged for faculty. Faculty members are given SCL (special casual leave) to attend FDP, workshops, seminars, conferences. A financial assistance of Rs. 60,000 is given to all the PhD registered faculty members. Fee concession for the wards of the faculty members Medical/Rural Accidental benefit insurance	SDP, Medical/Rural Accidental benefit insurance, Fee concession for the wards of the staff members. Work related facilities.	Scholarship schemes, Best student award and other awards for academic. Opportunity to participate in extra-curricular activities

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The Institution conducts internal audit half yearly and external audit at the end of every financial year. Financial planning and review is done through

Internal finance committee. The committee meets half yearly and reviews the income and expenditure statements and suggest further action plan. External Audit is conducted through a chartered accountant at the end of every financial year. Every Financial transaction is recorded through software (Tally) students are encouraged to pay the fee through online mode. Audited financial statements are made public by placing it on Institution website and are sent to statutory and regulatory bodies. An effective financial management system is in place and helps the institution in overall growth.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
M/s Ashoka Exports	10000	Varnothsava
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6.4.3 – Total corpus fund generated

114048156

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Local Inquiry Committee (LIC)	Yes	IQAC
Administrative	Yes	Local Inquiry Committee (LIC)	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Parent teachers meeting 2. PAC meeting 3. Orientation programme.

6.5.3 – Development programmes for support staff (at least three)

1. SDP 2. ICT based STTP conducted in association with NITTTR Kolkata on Development of laboratory Instructions and Manual. 3. Two day workshop on counselling.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. NBA 2. Incubation center 3. Branding

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Talk on Intellectual Property	13/10/2018	13/10/2018	13/10/2018	45

	Rights and Patenting by Mr. Nishanth K. Prasad, Associate, KS Partners, Intellectual Property Attorneys, Bengaluru				
2018	Two days FDP on Robotics by Mr. Ragavendra Rao Assistant Professor, department of ECE, SMVITM Bantakal	03/11/2018	03/11/2018	04/11/2018	22
2019	Workshop on "Science and Spirituality " by Prof. Dr. P.R Mukund, Professor, Department of Electrical Engineering, Rochester Institute of Technology, USA.	28/01/2019	28/01/2019	28/01/2019	92
2019	Workshop on NAAC accreditation process by NAAC team of SMVITM	02/03/2019	02/03/2019	02/03/2019	133
2019	A 3-day workshop on "Atal Tinkering Lab initiatives" for Pre University College Faculty and students	13/06/2019	13/06/2019	13/06/2019	45
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

		community					
2018	1	0	09/07/2018	7	Skilling Engineers For Professional Success	Addressing Local Disadvantage- As most of the students are from rural areas, there is a need to provide value addition which is not covered in University curriculum, such as soft skills, aptitude training, interpersonal skills etc.	21
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Research Ethics in Publications	01/08/2019	All publications by the institute faculty are checked for plagiarism.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Talk on Beat Plastic Pollution/Conservation of water, RWH	02/10/2018	02/10/2018	245
Vanamahotsava	16/08/2018	16/08/2019	180
Karnataka rajyotsava competitions	23/10/2018	26/10/2018	70
Visit to old age home: Ozanam - Home for the aged	26/04/2019	26/04/2019	40

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

? The used papers and notebooks are collected every semester and sent for recycling. ? Usage of plastic cups, plates and cutlery are restricted in the campus as a green initiative. ? Sufficient numbers of bins are placed at prominent locations to collect waste in campus. ? Sewage Treatment Plant (STP) of 125 kL/day capacity has been commissioned in the Institution. The treated water is used for flushing purpose in toilets and gardening purpose. ? 125kW solar power plant was commissioned during March 2019. Around 40 percent of Institutes power requirement is met through this solar power plant. ? The college has been always keen about minimizing the usage of paper. Circulars and notifications are forwarded to the staff members and students via e-mail and in recent times, through social media. Since the entire campus is Wi-Fi enabled, it becomes imperative on part of institute to utilize technology for information dissemination.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Practice-1: "Community Outreach" 1. Title of the Practice "COMMUNITY OUTREACH" 2. Objectives of the practice: To cultivate a sense of social responsibility in the students and inspire community work To bridge the theory-praxis divide To make students aware of actualities of the real world To provide a genuine platform wherein the students will be able to put their acquired knowledge into practice 3. Context: Knowledge without responsibility and practical application is meaningless. Similarly, self-growth and development become relevant only in the context of our broader social existence. Individuals cannot flourish if the community or society is crippling or crippled. The students at SMVITM are provided with ample opportunities to give something back to the society/community as paying a debt for what they themselves have received. This process of fuelling back into society one's knowledge-wealth in diverse domains is not only an empowering and satisfying experience it is also a great act of learning by itself in the making of responsive and responsible citizens of the country. 4. The Practice(s): Community outreach through various activities: Active involvement of students in various activities like blood donation camps, programmes related to health issues, issues of women empowerment, environmental issues, sanitation issues etc. organized by NSS, Rotaract, Community club, Eco club, Women Empowerment Club and Human Rights Club from time to time helps to inculcate values of good citizenship, responsibility and an orientation towards selfless service in the students. Programs such as Vanamahotsava conducted every year has seen the students and faculty plant trees and plants in a bid to make the campus as green as possible. This is a small effort that is undertaken every year under Eco club to promote ecological and environmental responsibility in the students. Under Unnat Bharath Abhiyan, the institute has identified and adopted 5 villages within a radius of 7km. Student groups have surveyed households to identify problems faced by the locals and have submitted their findings. These findings will be analysed, and the most feasible solutions for the problems will be formulated. Students and faculty will then apply for grants from the central government, which will be handed over to the local gram panchayats for utilization. Under Atal Tinkering Lab, around 8 identified high schools have been adopted. Students and faculty from our institute are training children at these schools in latest technologies. Training Programs are conducted by faculty at our institute to train diploma students of nearby polytechnics in domains not covered in their curriculum. Trainings on CNC (hands-on) takes place every semester for interested in-house and external students and working professionals. Training Workshops have been arranged for school teachers to increase their awareness about various pedagogical methods in teaching and various teaching aids that can be used. The resource persons were the faculty from the institute as well as external

knowledge streams. Regular Career Guidance Programs are conducted for 102 students. These students will be at the turning point in their education. It started with 1 program in 2013 and the number of such programs is increasing every year. In the present year, 15 such programs have been conducted at 10 different locations. The response from the students has always been very positive and forthcoming. The Eco Club has continuously absorbed itself with the task of spreading awareness about current environmental concerns by putting up posters at college and inter-college festivals. Community Club and NSS club, whose very motto is selfless service to society, has been actively pursuing the cause of community outreach. Some of the programmes organized under it include blood donation camps, health check-up camps, cleanliness drives and offering time in community service at a local level. The students under Community club and NSS have also regularly visited old age homes, orphanages and homes for specially-abled children and presented their services at the physical and emotional planes. These activities have helped in making the students more aware of life's harsh realities and hardships, and thus have made them more humble and feel grateful for what they had taken for granted until now.

Community outreach through research: Community outreach is also one of the guiding themes of undergraduate research projects. Students of various batches have carried out their final year project that serves the community regularly.

5. Evidence of success A sense of involvement and responsibility towards the community is an important element of students' education in general and professional education in particular. Through their interaction with marginalised people, students learn to address, question and finally reject discriminations in all forms. This is the most basic aim of education, studying to change society. It's not merely learning, but learning with a purpose, to understand the world around us, to help each other and to make it a better place for everyone. As described above, the college attempts to provide ample opportunities for such interactions to the students and contribute to the community. These practices do make a difference, however small it might be, in others life. While extending one's self for others, the students have been giving feedback as to how such practices have helped them to become genuine persons and sensitive budding professionals.

6. Problems Encountered and Resources Required Problems Time constraint in the semester system of the University Lack of awareness of the various government and private support agencies for funding and resource dispersal Distrust and lack of confidence from certain sections of society in the capabilities of the students to undertake community service and garner results Difficulty in translating the worth of community work carried out by students into academic credits Lack of funding for some of the projects Resources Additional funding for certain community-related projects Sales and market research for products designed and developed to be helpful for certain factions of the community such as agrarian, animal husbandry etc. Technical expertise from diverse branches of science, marketing, management etc. More awareness about government and private schemes such as Atal Tinkering Lab etc

Practice-2: "Teacher Guardian / Faculty Advisor Scheme"

1 Title of the Practice "Teacher Guardian / Faculty Advisor Scheme"

2.Objectives of the Practice To improve student-teacher relationship To monitor student's overall performance during their engineering program. To counsel students for solving their grievances and boost their self-esteem To keep the parents informed of their ward's performance To guide students towards right career path.

3.The Context The following issues made the Institute adopt the TG/FA(Teacher Guardian / Faculty Advisor) Scheme The pressures to perform in current competitive world and to face the challenges of the society, students need TG/FA support to achieve academic excellence. Conflicts in attitudes, habits, and adaptability towards learning practices. Lack of proper guidance in choosing right career, which was hampering their future. Lack of valid information to parents regarding their ward's performance.

4.The Practice A Batch of 10-20 students is allotted to a Teacher Guardian during their first

year in institute. Once the student enters specific departments in second year, they are allotted a Faculty Advisor for next 3 years. A faculty advisor is allotted around 20 students. Cumulative Performance Diaries (CPDs) are provided to each mentor to maintain the record of students under their patronage, which contains details such as academic performance, soft skills evaluation and personal details about the student. TG maintains this CPD during first year, later handed over to FA when student enters second year. The TG/FA meets the students once in a fortnight or whenever need arises. If required, proper counselling is provided through counselling cell. Progress report sent to all parents regarding their ward's performance after each internal assessment and semester exam. The Parents/ Guardians of Irregular/ underperforming students are called to meet the TG/FA and remedial measures are initiated for improvement.

Recommend remedial classes for slow learners. HOD monitors this process continually, and once in a semester all TG/FA have to report to HOD about the observations. Students have to maintain a blue card, which records all activities of a student within and outside the college. It also maintains the record of permissions by TG/FA, Parent, Coordinator and HOD Meeting of class committee (consisting of selected students of a class, subject handling faculty, TG/FA and HOD) is held frequently as scheduled, during which any issues pertaining teaching, learning, academic, discipline etc., gets highlighted which will be addressed suitably. 5. Evidence of Success No of Students having Attendance shortage has been reduced. The communications between TG/FA and students strengthened the Student Teacher relationship. Academic performances of the students have improved. Participation in co-curricular activities is enhanced. Parents acknowledge their ward performance regularly. Students are more focused to achieve their objectives. 6. Problems Encountered and Resources Required The new faculty members who are recruited in the department need time and guidance to understand the importance of TG/FA scheme. Orientation for such faculty members is required. The faculty members at times experience difficulty for one to one interaction due to time constraints. However most faculty members appreciate the utility of this scheme and take it up as pleasure.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://sode-edu.in/associations/nss-yrc-rc/>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The institute passionately believes in its principles of vision and mission and strives hard towards achieving its promise of providing holistic education. We believe that a strong and honest character is even more important than just having a career. Career may change, but an unshakeable character is a necessity for a content life. Knowledge: In addition to classroom teaching based on the prescribed syllabus, we also have various invited technical talks, short term workshops, lab experiments outside the curriculum and many more to augment the knowledge of the students. Skills: The institutional Placement Department trains the students frequently on soft skill and personality development. Technical skills are honed by regular hands-on training sessions on machines and on software. Innovation: Brainstorming sessions with experts, creative ideas being implemented and projects being taken forward for the benefit of the society and overall development of students are the objectives of this club. A number of students have come up with thoughtful ideas, and have made them work with support from the club, staff and the management. Entrepreneurship: The institute has an Entrepreneurship Development Cell that strives to provide all aspiring students to realize their entrepreneurship dreams. A few of our alumni have also started their own establishments. Leadership: Students showcase their

leadership capabilities during all major institute activities like - annual day, varnotsava, conferences etc., Students are provided with opportunities to participate in "Lead Prayana" which inculcates leadership with social responsibility in them. Social responsibility: Institute's NSS unit undertakes camps and interactive sessions with notable figures from time to time. Through "Atal Tinkering Lab", our students are sharing their knowledge with students of identified schools of the community. Cultural interests: The institute has its own Yakshagana team comprising of students, faculty and staff. The institute also has a team of performers playing 'chende', who create an atmosphere of divinity during every major occasion in the institute. There are a large number of students who are extremely talented in singing, dancing, painting, rangoli, skits, mimes and several other performing acts. The Extra Curricular team of the institute conducts Manthana, a series of competitions that are held over a period of several days each year for all interested students and staff. An annual inter-collegiate tehno-cultural fest named Varnothsava is held every year. Environmental aspects: The institute schedules Vanamahotsava programs every year, wherein respected members of the general public as well as alumni are invited to plant saplings of trees in the campus. The students are taking initiatives, along with "Swacchh Bharat Abhiyan" to spread awareness about environmental concerns within and outside campus, through street plays, cleanliness drives etc. Even while choosing topic for their projects, major driving factors have always been social, environmental concerns. Spiritual awareness: Spirituality is an essence in day to day activities at the institute. The pontiff of the matha delivers spiritually rich talks regularly to staff and students of the Institute. Pontiffs of the other 7 mathas also visit the campus occasionally and help in the spiritual uplift of the institute.

Provide the weblink of the institution

<https://sode-edu.in/associations/nss-yrcc-rc/>

8.Future Plans of Actions for Next Academic Year

The following future action plans are envisaged for the year 2019-20 • Organizing international conference. • International collaborations. • Registration of alumni association supported by good number of activities. • Increase in intake. • Starting new UG program. • Setup of incubation center. • Accreditation by NBA. • Enhancement of faculty qualification with Ph.D. • Increase in the quality research publications. • Organizing state level Hackathon event. • Increase the activities to improve the placements.